

**Table C7. Percentage recovery of individual hydrocarbons from spiked Sandy Hook Bay sediment samples.** <sup>1-3</sup>

Sample ID	Batch	Octane (n-C <sub>8</sub> )	Nonane (n-C <sub>9</sub> )	Decane (n-C <sub>10</sub> )	Undecane (n-C <sub>11</sub> )	Dodecane (n-C <sub>12</sub> )	Tridecane (n-C <sub>13</sub> )	Tetradecane (n-C <sub>14</sub> )	Pentadecane (n-C <sub>15</sub> )	Hexadecane (n-C <sub>16</sub> )	Heptadecane (n-C <sub>17</sub> )	Pristane	Octadecane (n-C <sub>18</sub> )	Phytane	Nonadecane (n-C <sub>19</sub> )	Eicosane (n-C <sub>20</sub> )	Heneicosane (n-C <sub>21</sub> )	Docosane (n-C <sub>22</sub> )	Tricosane (n-C <sub>23</sub> )	Tetracosane (n-C <sub>24</sub> )
897081117 <sup>4</sup>	1	ND	42.2	60.0	75.3	83.0	87.9	92.8	95.9	99.1	102	102	105	105	108	111	113	112	114	113
998021031 <sup>4</sup>	2	30.7	30.4	31.8	28.3	23.4	24.9	29.5	39.2	47.8	59.7	59.7	64.7	67.8	72.2	73.9	77.4	78.1	80.8	78.0
1098032330 <sup>4</sup>	3	28.6	62.3	75.4	82.0	86.0	90.8	93.6	95.4	97.8	104	101	112	106	121	122	123	121	119	116
1198082515 <sup>5,6</sup>	4	9.66	2.58	4.72	6.83	8.01	9.30	11.0	13.5	17.1	25.2	24.8	37.0	34.2	46.7	51.6	53.0	52.2	50.9	47.7

<sup>1</sup> The sediment was collected from Horseshoe Cove, Sandy Hook. The sediment was then mixed into a composite and portions of this composite was used for the analysis

<sup>2</sup> The concentrations were determined using external standard calculations.

<sup>3</sup> Percent recovery is equal to:  $100 \times (\text{amount of analyte recovered}) / (\text{amount of analyte added to the sediment} + \text{background analyte amount in the sediment})$ . Since no background sample was run in Batches 2, 3, or 4, a value of 0 was used for the background analyte amount in the equation for these batches.

<sup>4</sup> 100 µg of each individual hydrocarbon was spiked into sediments collected from Sandy Hook Bay.

<sup>5</sup> 50 µg of each individual hydrocarbon was spiked into sediments collected from Sandy Hook Bay.

<sup>6</sup> The surrogate internal standard recovery for this sample was 41.2%.

**Table C7. Continued.** <sup>1,2</sup>

Sample ID	Batch	Pentacosane (n-C <sub>25</sub> )	Hexacosane (n-C <sub>26</sub> )	Heptacosane (n-C <sub>27</sub> )	Octacosane (n-C <sub>28</sub> )	Nonacosane (n-C <sub>29</sub> )	Triacosane (n-C <sub>30</sub> )	n-Hentriacontane (n-C <sub>31</sub> )	Dotriacontane (n-C <sub>32</sub> )	Trtriacontane (n-C <sub>33</sub> )	Tettraiacontane (n-C <sub>34</sub> )	Pentatriacontane (n-C <sub>35</sub> )	Hexatriacontane (n-C <sub>36</sub> )	Heptatriacontane (n-C <sub>37</sub> )	Octatriacontane (n-C <sub>38</sub> )	Nonatriacontane (n-C <sub>39</sub> )	Tetracontane (n-C <sub>40</sub> )
897081117 <sup>3</sup>	1	116	114	114	118	NDTV <sup>6</sup>	99.4	85.5	69.9	75.4	36.8	30.4	23.7	19.6	16.1	14.2	12.5
998021031 <sup>3</sup>	2	79.5	77.3	80.8	76.6	78.7	76.1	79.2	69.5	68.5	55.5	43.2	41.2	38.2	34.1	33.9	37.1
1098032330 <sup>3</sup>	3	119	116	116	113	113	112	122	111	116	107	110	108	106	100	98.2	82.5
1198082515 <sup>4,5</sup>	4	45.0	40.5	37.2	33.0	30.2	28.2	26.3	25.1	24.6	22.4	21.2	19.7	19.0	17.9	17.8	17.8

<sup>1</sup> The concentrations were determined using external standard calculations.

<sup>2</sup> Percent recovery is equal to:  $100 \times (\text{amount of analyte recovered}) / (\text{amount of analyte added to the sediment} + \text{background analyte amount in the sediment})$ . Since no background sample was run in Batches 2, 3, or 4, a value of 0 was used for the background analyte amount in the equation for these batches.

<sup>3</sup> 100 µg of each individual hydrocarbon was spiked into sediments collected from Sandy Hook Bay.

<sup>4</sup> 50 µg of each individual hydrocarbon was spiked into sediments collected from Sandy Hook Bay.

<sup>5</sup> The surrogate internal standard recovery for this sample was 41.2%.

<sup>6</sup> NDTV - the analyte was not detected and no percentage recovery could be calculated.